

CLAIMS

1. A self-bonding insulated wire in which an insulated wire has thereon a bonding layer formed through application and baking of a bonding varnish, wherein the bonding varnish comprises:

- (A) a crystalline copolyamide resin having a melting point within a temperature range of 105-150°C,
- (B) an alcohol-soluble copolyamide resin with a flexural modulus of not less than 1500 MPa, and
- (C) an organic solvent containing an alcoholic organic solvent.

2. The self-bonding insulated wire according to claim 1, wherein the content of the alcoholic organic solvent in the ingredient (C) is 5-30% by weight of the amount of the whole solvent.

3. The self-bonding insulated wire according to claim 2, wherein the alcoholic organic solvent in the ingredient (C) is 2-ethylhexanol.

4. The self-bonding insulated wire according to any one of claims 1-3, wherein the ingredient (C) is contains a phenolic organic solvent and/or an aromatic hydrocarbon.

5. The self-bonding insulated wire according to claim 4, wherein the content of the phenolic organic solvent in the ingredient (C) is not more than 40% by weight based on the amount of the whole solvent.

6. The self-bonding insulated wire according to claims 1-4, wherein the content of the aromatic hydrocarbon in the ingredient (C) is 30-60% by weight based on the amount of the whole solvent..

7. The self-bonding insulated wire according to any one of claims 1-6, wherein the ingredient (B) contains at least two selected from a

reaction product of isophoronediamine and sebacic acid, a reaction product of isophoronediamine and azelaic acid, a reaction product of isophoronediamine and adipic acid, a nylon 6 monomer unit, a nylon 66 monomer unit, a nylon 610 monomer unit, a nylon 11 monomer unit and a nylon 12 monomer unit.

8. The self-bonding insulated wire according to any one of claims 1-7, wherein the amount of the ingredient (B) added is 5-20 parts by weight for 100 parts by weight of the ingredient (A).

9. A self-bonding insulated wire in which an insulated wire has thereon a bonding layer, wherein the bonding layer has a flexural modulus of 600-1000 MPa and the amount of gas of the alcoholic organic solvent released from the bonding layer is within the range of 0.1-100 ppm.

10. A self-bonding insulated wire in which an insulated wire has thereon a bonding layer, wherein a deflection yoke coil obtained by coiling, electric heating and press molding while using a coil winder under molding conditions set to 58 turns*2 wires, electric heating time of 1.5 seconds, applied electric current of 60 A, cooling press time of 25 seconds and mold temperature of 40°C has an amount of tortion of 0.3 or less and the amount of gas of the alcoholic organic solvent released from the bonding layer is within the range of 0.1-100 ppm.

11. The deflection yoke coil which is molded from the self-bonding according to any one of claims 1-9.